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20

<210> SEQ ID NO 32
 <211> LENGTH: 23
 <212> TYPE: PRT
 <213> ORGANISM: Variola virus

<400> SEQUENCE: 32

Leu Ser Ala Ala Thr Glu Thr Tyr Ser Gly Leu Thr Pro Glu Gln Lys
 1 5 10 15
 Ala Tyr Val Pro Ala Met Phe
 20

<210> SEQ ID NO 33
 <211> LENGTH: 19
 <212> TYPE: PRT
 <213> ORGANISM: Monkeypox virus

<400> SEQUENCE: 33

Tyr Gly Ala Pro Gly Ser Pro Thr Asn Leu Glu Phe Ile Asn Thr Gly
 1 5 10 15
 Ser Ser Lys

<210> SEQ ID NO 34
 <211> LENGTH: 19
 <212> TYPE: PRT
 <213> ORGANISM: Vaccinia virus

<400> SEQUENCE: 34

Tyr Gly Ala Pro Gly Ser Pro Thr Asn Leu Glu Phe Ile Asn Thr Gly
 1 5 10 15
 Ser Ser Lys

<210> SEQ ID NO 35
 <211> LENGTH: 19
 <212> TYPE: PRT
 <213> ORGANISM: Variola virus

<400> SEQUENCE: 35

Tyr Gly Ala Pro Gly Ser Pro Thr Asn Leu Glu Phe Ile Asn Thr Gly
 1 5 10 15
 Ser Ser Lys

The invention claimed is:

1. A method for inducing in a subject a protective immune response against poxvirus, comprising the steps of

- (a) administering to said subject an immunologically effective amount of a nucleic acid vaccine comprising the poxvirus nucleic acids of (1) a nucleic acid encoding L1R or its ortholog (2) a nucleic acid encoding A33R or its ortholog, (3) a nucleic acid encoding A27L or its ortholog, and (4) a nucleic acid encoding B5R or its ortholog,
- (b) subsequently administering to said subject an immunologically effective amount of a protein vaccine comprising the purified recombinant poxvirus proteins or peptides of
 - (i) a protein or peptide encoded by the open reading frame of the monkeypox ortholog L1R gene or its ortholog,
 - (ii) a protein or peptide encoded by the open reading frame of the monkeypox ortholog A27L gene or its ortholog,

(iii) a protein or peptide encoded by the open reading frame of the monkeypox ortholog A33R gene or its ortholog, and

(iv) a protein or peptide encoded by the open reading frame of the monkeypox ortholog B5R gene or its ortholog, and an adjuvant; and

(c) subsequently administering to said subject a second immunologically effective amount of a protein vaccine comprising the purified recombinant poxvirus proteins or peptides of

- (i) a protein or peptide encoded by the open reading frame of the monkeypox ortholog L1R gene or its ortholog,
- (ii) a protein or peptide encoded by the open reading frame of the monkeypox ortholog A27L gene or its ortholog,
- (iii) a protein or peptide encoded by the open reading frame of the monkeypox ortholog A33R gene or its ortholog, and